

# Jeffin Sam Joji

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## EDUCATION

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**Bachelor of Computer Science (Honours) | Brock University | September 2021 - December 2025**

## SUMMARY

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Talented and tech-savvy 4th year computer science student actively seeking opportunities in IT and Cyber Security roles for 2025, where I can showcase my strong competence and knowledge in the field.

## EXPERIENCE

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### **Virtual Security Analyst | PwC | November 2024**

- Completed a job simulation involving cybersecurity for PwC Digital Intelligence, gaining experience in understanding and explaining the concept of integrated defense.
- Developed expertise in integrated defense strategies and their application in real-world scenarios.
- Conducted risk assessments and formulated security recommendations for a client.
- Demonstrated proficiency in cybersecurity terminology, network segmentation, and firewall configuration.

### **Digital Photo Associate | Digital Attractions | May 2023 - Present**

- Proficiently captured high-quality digital photos of tourists at popular Niagara Falls attractions, creating memorable visual experiences.
- Utilized advanced photography equipment and software to edit and enhance photos, ensuring optimal image quality and aesthetic appeal.
- Implemented just-in-time inventory management, reducing costs by 30% and ensuring a seamless supply of necessary resources, while consistently meeting or exceeding sales targets through effective upselling techniques.
- Efficiently managed high-volume tourist photo sessions during peak hours, demonstrating strong organizational skills and attention to detail.

### **Virtual Security Analyst | ANZ | March 2024**

- Performed a social engineering investigation on assigned emails and accounts, analyzed, and investigated packets of network traffic with WireShark.
- Rebuilt the data forensically with a hex viewer, based on file signatures, and generated a report on my findings in accordance with established standards.

### **Virtual Security Analyst | MasterCard | February 2024**

- Played a key role in identifying and reporting security threats, with a specific focus on phishing attacks, during a job simulation as an analyst on Mastercard's Security Awareness Team, contributing to the organization's overall security posture.
- Conducted comprehensive analysis to identify areas within the business that required enhanced security training, leading to the implementation of targeted training courses and procedures for the respective teams.

### **Virtual Security Analyst: AIG Shields Up | AIG | February 2024**

- Developed Python script for ethical hacking, avoiding ransom payments by brute forcing decryption keys, and provided clear guidance to teams on vulnerability remediation.
- Completed cybersecurity threat analysis simulation for AIG's Cyber Defense Unit, staying updated on CISA publications and showcasing analytical skills.

### **McDonald's Crew Member | McDonald's | September 2021 - April 2023**

- Awarded Best Employee of the Month for July 2022 for exceptional leadership, innovative contributions, and inspiring team performance, while efficiently managing point-of-sale systems and delivering outstanding customer service to up to 200 customers daily, resulting in a 15% increase in positive feedback.
- Implemented training for new hires, leading to a 34% increase in their success ratio, while consistently maintaining cleanliness and up to 90% area maintenance standards at McDonald's, and providing invaluable support to the team during busy periods to ensure seamless operations.

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## ACADEMIC PROJECTS

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### AI Newsletter and Social Media Content Generator | January 2025 - April 2025

- Developed a full-stack web application using Django that leverages natural language processing to automate content creation for newsletters and social media platforms.
- Implemented AI-powered content generation based on user preferences and trending topics.
- Integrated customizable templates, engagement analytics, and automated multi-platform scheduling.
- **Technologies:** Jira, Python, Django, SQLite, JavaScript, HTML/CSS

### Neural Network Hyperparameter Tuning using Weka | December 2025

- Explored the effects of hyperparameters (e.g., learning rate, momentum, hidden layers) on the performance of neural networks using Weka's machine learning toolkit.
- Conducted experiments on classification datasets (e.g., Iris, Wine) to optimize model accuracy.
- Analyzed and reported the impact of tuning on generalization and training performance.

### Genetic Algorithm Optimization Report | October 2024

- Designed and tested a Genetic Algorithm (GA) to solve a complex optimization problem.
- Developed a Genetic Algorithm in Python to solve the university course scheduling problem and conducted 100 controlled experiments varying crossover methods, mutation/crossover rates, and dataset inputs.
- Automated result logging and analysis to identify optimal GA settings and determine the most effective crossover strategy for minimizing scheduling conflicts.

### Multiplayer Game using Socket Programming | March 2025

- Built a networked multiplayer game in Java using sockets and Swing, supporting concurrent terminal and GUI players with real-time synchronization and messaging across client sessions.

### Introduction to Cyber-Security | January 2025 – April 2025

- Completed a series of hands-on offensive security assignments using a Kali/Ubuntu Linux environment and Docker-based lab setups and Gained experience with Linux privilege escalation and secure system analysis.
- Demonstrated privilege escalation by exploiting buffer overflows, ARP spoofing with Python in Docker, and XSS attacks in a simulated environment.
- **Technologies:** Ubuntu/Kali Linux, Python, Docker, bash scripting, net-tools, Wireshark, Burp Suite

## PROFESSIONAL DEVELOPMENT

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### Cybersecurity Executive | Brock's Cybersecurity Club | September 2023 - Present

- Assist in hosting cybersecurity workshops, such as Capture the Flags (CTFs), and guest speaker events, including the [Chief Security Officer of Microsoft](#)
- Market events on social media to increase participant numbers while simultaneously analyzing feedback to identify opportunities for enhanced productivity and improved efficiency across multiple areas.

## CERTIFICATIONS

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- Google Cybersecurity Professional Certificate | Coursera | July 2024
- Jr Penetration Tester | TryHackMe | September 2024

## SKILLS

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**Soft skills:** Problem Solving, Team Building, Analytical & Decision-making skills, Strong Written, Verbal and Inter-personal Communication skills.

**Technical Skills:** IBM SPSS Statistics, Microsoft Office 365, Technical Support, Hardware/Software Support, Troubleshoot, QuickBooks, Linux, Mac OS, Windows 11, Python, Java, C++, SQL, SQLMap, Git, HTML, JavaScript, Wireshark, Nmap, Burp Suite, Metasploit, Data Analysis, Bash Scripting, Socket Programming, Docker, PowerShell, Nikto, Gobuster, UI/UX Design, Web Design, Adobe Premier Pro, DaVinci Resolve